Chemical and Physical Biology

Basic Requirements (16 Half-courses) and
Requirements for Honors Eligibility (16 Half-courses)

***Note: This worksheet was created using information in the Handbook for Students and should be used for planning purposes only.***

Life Sciences: LS1a (or LPSA) and LS1b

MCB 60

One additional intermediate course (MCB 63, 64, 65* or 68)

General or Inorganic Chemistry - 1 half course chosen from:
   Phys Sci 1, 10 or 11 OR Chem 40 or 160 (or suitable equivalent)

Organic Chemistry - 2 half courses chosen from:
   Chem 20 and Chem 30 OR Chem 17 and Chem 27

Physical Chemistry - 1 half course chosen from:
   Chem 60 or 161 OR MCB 65* or 199 (or suitable equivalent)

Mathematics: Math 19a and 19b OR 21a and 21b
   OR Applied Math 21a and 21b

Physics: One half-course in mechanics (chosen from
   Physics 16, 15a, 11a (no longer offered); Physical Sciences 2** or 12a;
   or Applied Physics 50a), and one half-course in electricity and
   magnetism (chosen from Physics 15b, 11b (no longer offered);
   Physical Sciences 3** or 12b; or Applied Physics 50b).

3 advanced courses (2 if writing an honors thesis)- Any 100-level
Chemistry, Molecular and Cellular Biology, Applied Math or
Physics course will meet this requirement. The courses listed here
also count for concentration credit.

Research: Students who do not write a thesis based on laboratory research must take one project lab course
(such as LS 100r, Chem 100r, 135 or 165 or OEB 100r) or enroll in one term of CPB 91r (supervised research).

Thesis (required for honors eligibility): Students intending to write a thesis should enroll in Chemical and
Physical Biology 99 (laboratory research for honors thesis) in their last year at the College. CPB 99 is a full year,
letter-graded course. Students intending to write a thesis should be working in a research laboratory by their
junior year and plan to spend the summer between the junior and senior years working in their thesis project.

Tutorial: Required of all concentrators in sophomore and junior years unless engaged in thesis research. Tutorial
sessions are non-credit (and therefore do not appear on the study card or transcript), take place approximately
twice per month, and typically consist of readings selected from the primary literature or relevant texts.

Advising notes: Advising notes for CPB concentrators are posted here.

* MCB 65 can be used to fulfill either the intermediate course requirement or the physical chemistry requirement,
but not both.

** Students who do not take at least one course at the level of Physics 15 or 16 or Physical Science 12 must take a
computational course as one of the upper level courses chosen from CS 50 or 109; Applied Math 111, 115 or 126;
MCB 111, 112, 131, or 199; or other computational class approved by the Head Tutor.